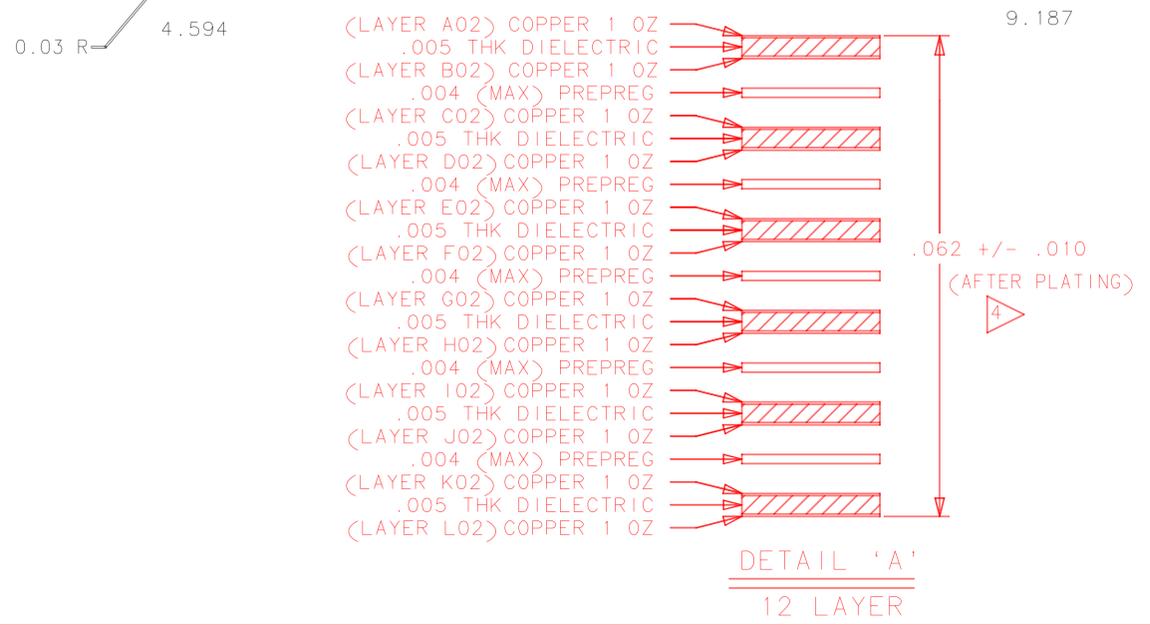


| ITEM | PART NO.            | QTY. | DESCRIPTION |
|------|---------------------|------|-------------|
| 1    | 10Y-226430 M1 - M14 | REF  | ARTWORK     |

- NOTES: UNLESS OTHERWISE SPECIFIED
- FABRICATE PRINTED WIRING BOARD PER IPC-4101.
  - MATERIAL; TYPE PC-GF PREPREG AND TYPE GFN COPPER CLAD EPOXY LAMINATE WITH A MINIMUM GLASS TRANSITION TEMPERATURE OF 125°C, WITH TYPE H COPPER FOIL PER MIL-P-13949.
  - PREPREG: FINISHED BOARDS SHALL HAVE A MINIMUM OF .0035 INCH OF PREPREG MATERIAL BETWEEN CONDUCTIVE LAYERS.
  - ELECTRODEPOSIT COPPER PLATING PER MIL-C-14550. A MINIMUM THICKNESS OF .001 INCH FOR 1 OZ CALLOUTS ON ALL EXTERNAL LAYERS AND HOLES IS REQUIRED.
  - TIN-LEAD PLATE PER QQ-S-571 TO A MINIMUM THICKNESS OF .0001 ON EXTERNAL LAYERS AND ALL HOLES.
  - ANNULAR RING: A MINIMUM OF .002 INCH IS REQUIRED ON ALL EXTERNAL LAYERS AND .001 INCH ON INTERNAL LAYERS.
  - SEE DETAIL 'A' FOR BOARD CROSS SECTION.
  - FOR DRILL SIZES AND COORDINATES SEE CROC NC.
  - ETCHBACK: THE MAXIMUM ALLOWABLE IS .003 INCH.

| DRILL SYMBOL | DRILL SIZE | COUNT | PLATED |
|--------------|------------|-------|--------|
| ◆            | 0.01       | 1436  | YES    |
| ○            | 0.012      | 1     | YES    |
| □            | 0.022      | 83    | YES    |
| ◇            | 0.028      | 196   | YES    |
| ⊗            | 0.03       | 201   | YES    |
| ⊕            | 0.032      | 96    | YES    |
| △            | 0.047      | 2     | YES    |
| +            | 0.059      | 16    | NO     |
| ×            | 0.08       | 8     | NO     |
| +            | 0.094      | 2     | NO     |
| ⊕            | 0.11       | 2     | NO     |



|                                |              |              |                                 |  |            |
|--------------------------------|--------------|--------------|---------------------------------|--|------------|
| B                              | REDESIGNED   | 3-7-00       | G.S.                            |  |            |
| A                              | REDESIGNED   | 11-9-99      | G.S.                            |  |            |
| ORIGINAL ISSUE                 |              |              |                                 |  |            |
| REVISION LETTER                | CLASS REVIEW | REVISIONS    | DATE                            | CHANGED BY                                     | CHECKED BY |
| LOS ALAMOS                     |              |              | CLASSIFICATION OF DRAWING: UNCL |  |            |
| LOS ALAMOS NATIONAL LABORATORY |              |              | PART: UNCL TITLE BLOCK: UNCL    |  |            |
| LOS ALAMOS, NEW MEXICO 87545   |              |              | TITLE                           |  |            |
|                                |              |              | CROC                            |  |            |
|                                |              |              | CATHODE READOUT                 |  |            |
|                                |              |              | DETAIL                          |  |            |
| ORIGINATED                     | SIGNATURE    | DATE         | GROUP                           |  |            |
| DRAWN                          | G.R.         | 4/28/99      | NIS-4                           | .X= +/- .000 0.XX= +/- .000 ANGULAR= +/- .000  |            |
| CHECKED                        |              |              |                                 | 0.X= +/- .000 0.XXX= +/- .000 FINISH= +/- .000 |            |
| PROJ. ENGR.                    |              |              |                                 |  |            |
| APPROVED                       |              |              |                                 |  |            |
| RELEASED                       |              |              |                                 |  |            |
| SCALE                          |              | TOTAL SHEETS | DRAWING NO.                     | SHEET NO.                                      |            |
| 2/1                            |              | 1            | 10Y-226430                      | D3   |            |